

## **Ch 7: Soil, Agriculture & the Future of Food**

**traditional agriculture vs. industrial agriculture**

**topsoil**

**erosion** (& what people have done to make topsoil vulnerable to it); **desertification**

**Dust Bowl** (event & place)

Soil Conservation Service/**SCS** (Natural Resources Conservation Service/**NRCS**)

Methods for conservation:

*crop rotation, contour farming, terracing, intercropping, shelterbelts, no-till farming*

**Irrigation** (waterlogging & salinization)

**Fertilizer, overgrazing**

**food security** – do we have it? Why or why not?

**monoculture**

**Green Revolution** (Norman Borlaug)

What crop? When? Benefits/drawbacks (“trade-offs”)?

**pesticides** (& other –cides) *resistance*

**biotechnology**: genetic engineering, genetically modified organisms

**CAFOs** (feedlots, aquaculture)

How can you eat in such a way as to support **sustainable agriculture**? What are sustainable food choices?  
**organic, CSAs, “locavores”**

**“King Corn”** (study your notes – in terms of content, look for links between textbook & film)

**Ch 11** “Central Case: Mining for ... Cell Phones?”

+ Rare Earths (videos shown in class)

**Ch 17** Testing the Toxicity of “e-Waste” + videos shown in class